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March 26, 2003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE


In re application of D. Goring, N. Silva, and Y. Haffani
U.S. Application No. 10/086,464
Filed February 28, 2002
Proline-rich Extensin-like Receptor Kinases

Group No. 1645
Examiner NYA

(Atty. Docket No. P 25,762-A USA)

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, Washington, D.C. 20231, on Wednesday, March 26, 2003.


Gene J. Yao

Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 C.F.R. §§1.56, 1.97 AND 1.98

Sir:

The present Information Disclosure Statement is being submitted prior to the issuance of the first Action on the merits. Accordingly, no fee or certification is required.

Enclosed herewith is a copy of Form PTO-1449 Modified (10 sheets).

Group No. 1645
Application No. 10/086,464

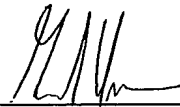
March 26, 2003
Attorney Docket No. P 25,762-A USA
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The present application claims priority under 35 U.S.C. §120 to U.S. Application No. 10/069,304. Since publications AA to IG cited on the Form PTO-1449 Modified were previously submitted to the Office in the parent application and since the IDS filed in the parent application is compliant with 37 CFR §1.98, submission of copies of such publications is not required under 37 CFR §1.98(d). However, applicants will provide such copies upon the Examiner's request. Copies of publications IH to JM are enclosed herewith.

It is requested respectfully that the Examiner initial the aforementioned sheets and return a copy of same to the undersigned upon consideration of these publications.

The Commissioner is hereby authorized to charge any fees associated with this communication to Deposit Account No. 19-5425. A duplicate of this letter is attached.

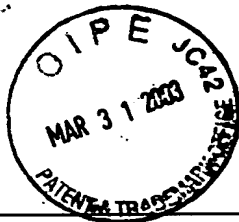
Respectfully submitted,



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Sheet 1 of 10

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Form PTO-1449 Modified List of Patents and Publications Cited by Applicants (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office			Docket No. P-25,762-A USA		Application No. 10/086,464	
			Applicant(s) D. Goring, N. Silva, Y. Haffani			
			Filing Date 02/28/ 2002		Group 1645	
U.S. PATENT DOCUMENTS						
Examiner Initials		Document No.	Date	Name	Class	Subclass
	AA	5,880,328	03-09-1999	Ryals, et al.	800	205
	AB	5,876,991	03-02-1999	DeHoff, et al.	435	183
	AC	5,871,983	02-16-1999	Baltz, et al.	435	172.3
	AD	5,859,337	01-12-1999	Gasser, et al.	800	298
	AE	5,858,719	01-12-1999	Hillman, et al.	435	69.1
	AF	5,851,788	12-22-1998	Fukuda, et al.	435	29
	AG	5,850,025	12-15-1998	Mirkov, et al.	800	279
	AH	5,847,258	12-08-1998	Ryals, et al.	800	205
	AI	5,840,537	11-24-1998	Bandman, et al.	435	69.1
	AJ	5,840,530	11-24-1998	Gubler, et al.	435	69.1
	AK	5,824,864	10-20-1998	Fox, et al.	800	265
	AL	5,821,096	10-13-1998	Peery, et al.	435	183
	AM	5,821,094	10-13-1998	Rothstein, et al.	435	172.3
	AN	5,804,693	09-08-1998	Gaffney, et al.	800	205
	AO	5,792,851	08-11-1998	Schuster, et al.	536	23.5
	AP	5,789,202	08-04-1998	Hoskins, et al.	435	69.3
	AQ	5,786,322	07-28-1998	Barrett, et al.	514	2
	AR	5,767,375	06-16-1998	Briggs, et al.	800	205
	AS	5,767,369	06-16-1998	Ryals, et al.	800	205
	AT	5,767,075	06-16-1998	Avruch, et al.	514	12
	AU	5,763,571	06-09-1998	Avruch, et al.	530	324
	AV	5,763,211	06-09-1998	Snodgrass, et al.	435	69.1
Examiner			Date Considered			



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Examiner Initials		Document No.	Date	Name	Class	Subclass
	BA	5,759,788	06-02-1998	Freneau, et al.	435	7.21
	BB	5,756,684	05-26-1998	Johnson, et al.	530	388.21
	BC	5,753,226	05-19-1998	Greene, et al.	424	130.1
	BD	5,750,848	05-12-1998	Kruger, et al.	800	281
	BE	5,750,653	05-12-1998	Chu, et al.	530	350
	BF	5,750,652	05-12-1998	Artavanis-Tsakonas, et al.	530	350
	BG	5,710,018	01-20-1998	Dantzig, et al.	435	69.1
	BH	5,688,681	11-18-1997	Kim	435	240.27
	BI	5,688,657	11-18-1997	Tsang, et al.	435	7.23
	BJ	5,683,983	11-04-1997	Barrett, et al.	514	12
	BK	5,683,693	11-04-1997	Noelle, et al.	424	144.1
	BL	5,681,714	10-28-1997	Breitman, et al.	435	69.1
	BM	5,677,280	10-14-1997	Barrett, et al.	514	14
	BN	5,672,584	09-30-1997	Borchardt, et al.	514	11
	BO	5,668,110	09-16-1997	Barrett, et al.	514	13
	BP	5,667,781	09-16-1997	Trowbridge, et al.	424	143.1
	BQ	5,665,356	09-09-1997	DeBurgh Bradley, et al.	424	153.1
	BR	5,654,276	08-05-1997	Barrett, et al.	514	13
	BS	5,643,873	07-01-1997	Barrett, et al.	514	12
	BT	5,612,191	03-18-1997	Briggs, et al.	435	69.1
	BU	5,591,628	01-07-1997	B.ae butted.K, et al.	435	240.26
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U.S. PATENT DOCUMENTS

Examiner Initials		Document No.	Date	Name	Class	Subclass
	CA	5,563,246	10-08-1996	Krulwich, et al.	530	350
	CB	5,512,282	04-30-1996	Krivan, et al.	424	169.1
	CC	5,510,241	04-23-1996	Thorns	435	7.3
	CD	5,503,987	04-02-1996	Wagne, et al.	435	7.94
	CE	5,501,988	03-26-1996	Kobayashi, et al.	436	548
	CF	5,500,345	03-19-1996	Soe, et al.	435	7.1
	CG	5,496,705	03-05-1996	Sugano	435	7.23
	CH	5,422,108	06-06-1995	Mirkov, et al.	424	94.61
	CI	5,346,815	09-13-1994	Krulwich, et al.	435	69.1
	CJ	5,225,331	07-06-1993	Lacroix, et al.	435	7.34
	CK	5,124,147	06-23-1992	Wissner, et al.	424	85.8
	CL	4,828,985	05-09-1989	Self	435	7

FOREIGN PATENT DOCUMENTS

Examiner Initials		Document No.	Date	Country	Translation	
					Yes	No
	CM	WO 94/09139	04-28-1994	PCT		
	CN	WO 97/13843	04-17-1997	PCT		
	CO					
	CP					
	CQ					
	CR					
	CS					

Examiner	Date Considered
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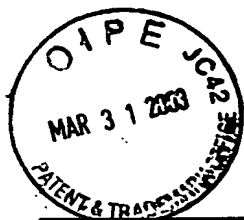
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		Filing Date 02/28/ 2002	Group 1645
U.S. Department of Commerce Patent and Trademark Office			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	DA	Lin, et al., <i>Arabidopsis Chromosome II BAC T30D6 Genomic Sequence</i> (abstract), DATABASE EMBL AC Q9ZNQ8 'Online! (May 1, 1999).	
	DB	Terryn, et al., <i>Serine/Threonine Protein Kinase</i> (abstract), DATABASE EMBL 'Online AC 065672 (Aug. 1, 1998).	
	DC	Vysotskaia, et al., <i>Arabidopsis thaliana chromosome 1 BAC F508 Sequence</i> (abstract), DATABASE EMBL 'Online! AC Q9ZUEO (May 1, 1999).	
	DD	Federspiel, et al., <i>Sequence from N.A.</i> (abstract), DATABASE EMBL AC Q9XI96 'Online (Nov. 1, 1999).	
	DE	W. R. Pearson, et al., <i>Improved Tools for Biological Sequence Analysis</i> , PNAS, 85:2444-48 (1988).	
	DF	W. R. Pearson, <i>Rapid and Sensitive Sequence Comparison with FASTP and FASTA</i> , METHODS IN ENZYMOLOGY, 183:63-98 (1990).	
	DG	X. Tang, et al., <i>Overexpression of Pto Activates Defense Responses and Confers Broad Resistance</i> , PLANT CELL, 11:15-29 (1999).	
	DH	H. Cao, et al., <i>Generation of Broad-spectrum Disease Resistance by Overexpression of an Essential Regulatory Gene in Systemic Acquired Resistance</i> , PROC. NATL. ACAD. SCI., 95:6531-36 (1998).	
	DI	J. Royo, et al., <i>Antisense-mediated Depletion of a Potato Lipxygenase Reduces Wound Induction of Proteinase Inhibitors and Increases Weight Gain of Insect Pests</i> , PROC. NATL. ACAD. SCI., 96:1146-51 (1999).	
	DJ	D. M. Braun & J. C. Walker, <i>Plant Transmembrane Receptors: New Pieces in the Signaling Puzzle</i> , TIBS, 21:70-73 (1996).	
	DK	G. I. Cassab, <i>Plant Cell Wall Proteins</i> , ANNU. REV. PLANT PHYSIOL. PLANT MOL. BIOL., 49:281-309 (1998).	
	DL	C. Chang, et al., <i>The TMK1 Gene from Arabidopsis Codes for a Protein with Structural and Biochemical Characteristics of a Receptor Protein Kinase</i> , PLANT CELL, 4:1263-71 (1992).	
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Form PTO-1449 Modified List of Patents and Publications Cited by Applicants (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. P-25,762-A USA	Application No. 10/086,464
		Applicant(s) D. Goring, N. Silva, Y. Haffani	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	EA	S. Clark, et al., <i>The CLAVATA1 Gene Encodes a Putative Receptor-Kinase That Controls Shoot and Floral Meristem Size in Arabidopsis</i> , CELL, 89:575-85 (1997).	
	EB	J. M. Cock, et al., <i>Natural Antisense Transcripts of the S Locus Receptor Kinase Gene and Related Sequences in Brassica oleracea</i> , MOL. GEN. GENT., 255:514-24 (1997).	
	EC	D. R. Corbin, et al., <i>Differential Regulation of a Hydroxyproline-rich Glycoprotein Gene Family in Wounded and Infected Plants</i> , MOL CELL BIOL., 7:4337-44 (1987).	
	ED	S. H. Doares, et al., <i>Salicylic Acid Inhibits Synthesis of Proteinase Inhibitors in Tomato Leaves Induced by Systemin and Jasmonic Acid</i> , PLANT PHYSIOL., 108:1741-46 (1995).	
	EE	K. G. Dwyer, et al., <i>A Superfamily of S Locus-related Sequences in Arabidopsis: Diverse Structures and Expression Patterns</i> , PLANT CELL, 6:1829-43 (1994).	
	EF	A. P. Feinberg & B. Vogelstein, <i>A Technique for Radiolabeling DNA Restriction Endonuclease Fragments to High Specific Activity</i> , ANAL. BIOCHEM., 132:6-13 (1983).	
	EG	M. A. Frohman, et al., <i>Rapid Production of Full Length DNAs from Rare Transcripts: Amplification Using a Single Gene-specific Oligonucleotide Primer</i> , PROC. NATL. ACAD. SCI. USA, 85:8998-9002 (1988).	
	EH	D. R. Goring & S. J. Rothstein, <i>The S-locus Receptor Kinase Gene in a Self-incompatible Brassica napus Line Encodes a Functional Serine/Threonine Kinase</i> , PLANT CELL, 4:1273-81 (1992).	
	EI	D. R. Goring, et al., <i>Identification of an S-locus Glycoprotein Allele Introgressed from B. napus ssp. rapifera to B. napus ssp. oleifera</i> , PLANT J., 2:983-89 (1992).	
	EJ	S. K. Hanks & A. M. Quinn, <i>Protein Kinase Catalytic Domain Sequence Database: Identification of Conserved Features of Primary Structure and Classification of Family Members</i> , METHODS ENZYMOL, 200:38-62 (1991).	
	EK	C. Hervé, et al., <i>Characterization of an Arabidopsis thaliana Gene That Defines a New Class of Putative Plant Receptor Kinases with an Extracellular Lectin-like Domain</i> , J. MOL. BIOL., 258:778-88 (1996).	
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Form PTO-1449 Modified List of Patents and Publications Cited by Applicants (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. P-25,762-A USA	Application No. 10/086,464
		Applicant(s) D. Goring, N. Silva, Y. Haffani	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	FA	M. A. Horn & J. C. Walker, <i>Biochemical Properties of the Autophosphorylation of RLK5, a Receptor-like Protein Kinase from Arabidopsis thaliana</i> , BIOCHEM. et BIOPHYS. ACTA, 1208:65-74 (1994).	
	FB	J. D. G. Jones, <i>High Level Expression of Introduced Chimaeric Genes in Regenerated Transformed Plants</i> , EMBO J., 4:2411-18 (1985).	
	FC	B. Keller & C. J. Lamb, <i>Specific Expression of a Novel Cell Wall Hydroxyproline-rich Glycoprotein Gene in Lateral Root Initiation</i> , GENES DEV., 3:1639-46 (1989).	
	FD	B. D. Kohorn, <i>An Arabidopsis Serine/Threonine Kinase Homologue with an Epidermal Growth Factor Repeat Selected in Yeast for Its Specificity for a Thylakoid Membrane Protein</i> , PROC. NATL. SCI. USA, 89:10989-92 (1992).	
	FE	J. Kyte & R. F. Doolittle, <i>A Simple Method for Displaying the Hydropathic Character of a Protein</i> , J. MOL. BIOL., 157:105-32 (1982).	
	FF	J. Li & J. Chroy, <i>A Putative Leucine Rich Repeat Receptor Kinase Involved in Brassinosteroid Signal Transduction</i> , CELL, 90:929-38 (1997).	
	FG	H. Y. Lin, et al., <i>Expression Cloning of TGF-β Type II Receptor, a Functional Transmembrane Serine/Threonine Kinase</i> , CELL, 68:775-85 (1992).	
	FH	H. A. Lutcke, et al., <i>Selection of AUG Initiation Codons Differs in Plants and Animals</i> , EMBO J., 6:43-48 (1987).	
	FI	G. Merkouropoulos, et al., <i>The Arabidopsis Extensin Gene is Developmentally Regulated, Is Induced by Wounding, Methyl Jasmonate, Absciscic Acid and Salicylic Acid, and Codes for a Protein with Unusual Motifs</i> , PLANTA, 208:212-19 (1999).	
	FJ	J.-H. Mu, et al., <i>Characterization of a Pollen Expressed Receptor-line Kinase Gene of Petunia inflata and the Activity of Its Encoded Kinase</i> , PLANT CELL, 6:709-721 (1994).	
	FK	J. B. Nasrallah & M. E. Nasrallah, <i>Pollen-stigma Signaling in the Sporophytic Self-incompatibility Response</i> , PLANT CELL, 5:1325-35 (1993).	
	FL	I. A. M. Penninckx, et al., <i>Pathogen-induced Systemic Activation of a Plant Defensin Gene in Arabidopsis Follows a Salicylic Acid-independent Pathway</i> , PLANT CELL, 8:2309-23 (1996).	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	GA	H. Peña-Cortés, et al., <i>Aspirin Prevents Wound-induced Gene Expression in Tomato Leaves by Jasmonic Acid Biosynthesis</i> , PLANTA, 191:123-28 (1993).	
	GB	F. Sanger, et al., <i>DNA Sequencing with Chain Terminating Inhibitors</i> , PROC. NATL. ACAD. SCI. USA, 74:5463-67 (1977).	
	GC	N. Sauer, et al., <i>Cloning and Characterization of a Wound-Specific Hydroxyproline-Rich Glycoprotein in Phaseolus vulgaris</i> , PLANT CELL ENVIRON., 13:257-66 (1990).	
	GD	P. Schweizer, et al., <i>Induced Systemic Resistance in Wounded Rice Plants</i> , PLANT J., 14:475-81 (1998).	
	GE	A. H. Shirsat, et al., <i>A Gene for Brassica napus Extensin Is Differentially Expressed On Wounding</i> , PLANT MOL. BIOL., 30:1291-1300 (1996).	
	GF	A. M. Showalter, et al., <i>Tomato Extensin and Extensin-like cDNAs: Structure and Expression in Response to Wounding</i> , PLANT MOL. BIO., 16:547-65 (1991).	
	GG	A. M. Showalter, <i>Structure and Function of Plant Cell Wall Proteins</i> , PLANT CELL, 5:9-23 (1993).	
	GH	S. J. Singer, <i>Structure and Insertion of Integral Proteins in Membranes</i> , ANNU. REV. CELL BIOL., 6:247-96 (1990).	
	GI	W.-Y. Song, et al., <i>A Receptor Kinase-like Protein Encoded by the Rice Disease Resistance Gene Xa21</i> , SCIENCE, 270:1804-06 (1995).	
	GJ	J. C. Stein, et al., <i>Molecular Cloning of a Putative Receptor Protein Kinase Gene Encoded at the Self-Incompatibility Locus of Brassica oleracea</i> , PROC. NATL. ACAD. SCI. USA, 88:8816-20 (1991).	
	GK	K. Suzuki & H. Shinshi, <i>Transient Activation and Tyrosine Phosphorylation of a Protein Kinase in Tobacco Cells Treated with a Fungal Elicitor</i> , PLANT CELL, 7:639-47 (1995).	
	GL	R. Swarup, et al., <i>A New Class of Receptor-like Protein Kinase Gene from Arabidopsis thaliana Possessing a Domain with Similarity of Plant Lectin Genes</i> , PLANT PHYSIOL., 111:347 (1996).	
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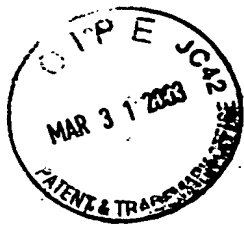
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	HA	P. ten Dijke, et al., <i>Activin Receptor-like Kinases: A Novel Subclass of Cell Surface Receptors with Predicted Serine/Threonine Kinase Activity</i> , ONCOGENE, 8:2879-87 (1993).	
	HB	E. Titarenko, et al., <i>Jasmonic Acid-Dependent and -Independent Signaling Pathways Control Wound-Induced Gene Activation in Arabidopsis thaliana</i> , PLANT PHYSIOL., 115:817-26 (1997).	
	HC	C. M. Tobias, et al., <i>An Arabidopsis thaliana Gene with Sequence Similarity to the S-locus Receptor Kinase of Brassica oleracea</i> , PLANT PHYSIOL., 99:284-90 (1992).	
	HD	K. U. Torii, et al., <i>The Arabidopsis ERECTA Gene Encodes a Putative Receptor Protein Kinase with Extracellular Leucine-rich Repeats</i> , PLANT CELL, 8:735-46 (1996).	
	HE	K. Truernit, et al., <i>The Sink-Specific Stress-Regulated Arabidopsis STP4 Gene: Enhanced Expression of a Gene Encoding a Monosaccharide Transporter by Wounding, Elicitors and Pathogen Challenge</i> , PLANT CELL, 8:2169-82 (1996).	
	HF	A. Ullrich & J. Schlessinger, <i>Signal Transduction by Receptors with Tyrosine Kinase Activity</i> , CELL, 61:203-12 (1990).	
	HG	S. Usami, et al., <i>Cutting Activates a 46-kilodalton Protein Kinase in Plants</i> , PROC. NATL. ACAD. SCI. USA, 92:8660-64 (1995).	
	HH	J. C. Walker, <i>Receptor-like Protein Kinase Genes of Arabidopsis thaliana</i> , PLANT J., 3:451-56 (1993).	
	HI	J. C. Walker, <i>Structure and Function of the Receptor-like Protein Kinases of Higher Plants</i> , PLANT MOL. BIOL., 26:1599-1609 (1994).	
	HJ	J. C. Walker & R. Zhang, <i>Relationship of a Putative Receptor Protein Kinase from Maize to the S-locus Glycoproteins of Brassica</i> , NATURE, 345:743-46 (1990).	
	HK	G.-L. Wang, et al., <i>Xa21 Encodes a Receptor-like Molecule with a Leucine-rich Repeat Domain that Determines Race-specific Recognition and Is Subject to Adaptive Evolution</i> , PLANT CELL, 10:765-79 (1998).	
	HL	X. Wang, et al., <i>The PR5K Receptor Protein Kinase from Arabidopsis thaliana Is Structurally Related to a Family of Plant Defense Proteins</i> , PROC. NATL. ACAD. SCI. USA, 93:2598-2602 (1996).	
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	IA	R. Ward, et al., <i>Coordinate Gene Activity in Response to Agents That Induce Systemic Acquired Resistance</i> , PLANT CELL, 3:1085-94 (1991).	
	IB	J. N. Weinstein, et al., <i>Charge Clusters and the Orientation of Membrane Proteins</i> , J. MEMBR. BIOL., 66:203-12 (1982).	
	IC	L. G. Wilson & J. L. Fry, <i>Extensin - A Major Cell Wall Glycoprotein</i> , PLANT CELL ENVIRON., 9:239-60 (1986).	
	ID	Y. Yang, et al., <i>Signal Perception and Transduction in Plant Defense Responses</i> , GENES DEV., 11:1621-39 (1997).	
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List of Patents and Publications Cited by Applicant (Use several sheets if necessary)		Applicant(s) D. Goring, N. Silva, Y. Haffani	
		Filing Date 02/28/ 2002	Group 1645
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